OPEN WIDE AND TREK INSIDE

Arkansas Science Standards: Grades 1 & 2

Grade 1

Lesson	Standard	Descriptor
All lessons	NS.1.1.1	Communicate observations orally, in writing, and in graphic organizers: T-charts and pictographs.
1, 2, 3, 5	NS.1.1.2	Ask questions based on observations.
1, 2, 3	NS.1.1.3	Conduct *scientific investigations* as a class and in teams: *lab activities and field studies.*
3	NS.1.1.4	Estimate and measure length and *temperature* using International System of Units (SI) as a class.
1, 2, 3	NS.1.1.5	Collect measurable *empirical evidence* as a class and in teams.
2, 3, 5	NS.1.1.6	Make predictions as a class and in teams based upon *empirical evidence* (e.g., predict which object is heavier).
3	NS.1.1.7	Use age appropriate equipment and tools in *scientific investigations* (e.g., balances, hand lenses, rulers, and *thermometers*).
1, 2, 3	NS.1.1.8	Apply appropriate rules of safety related to daily activities.
3	NS.1.1.9	Apply lab safety rules as they relate to specific science *lab activities* (see Arkansas Lab Safety Guide).
3, 4, 5, 6	LS.2.K.7	Identify the basic materials for oral hygiene. (K)
5	LS.2.K.8	Demonstrate the proper technique for cleaning teeth. (K)
1, 2, 4	PS.5.1.1	Compare and contrast objects according to the single properties of size, color, shape, texture, and *magnetism.*

Grade 2

Lesson	Standard	Descriptor
1, 2, 3, 5	NS.1.2.1	Communicate observations orally, in writing, and in graphic organizers: T-charts, pictographs, Venn diagrams, and bar graphs.
1, 2, 3	NS.1.2.2	Develop questions that guide scientific inquiry.
1, 2, 3	NS.1.2.3	Conduct *scientific investigations* individually and in teams: *lab activities and field studies.*
3	NS.1.2.4	Estimate and measure length and *temperature* using International System of Units (SI).
1, 2, 3	NS.1.2.5	Collect measurable *empirical evidence* in teams and as individuals.
2, 3, 5	NS.1.2.6	Make predictions in teams and as individuals based upon *empirical evidence.*
3	NS.1.2.7	Use age appropriate equipment and tools in *scientific investigations* (e.g., balances, hand lenses, rulers, and *thermometers*).
3	NS.1.2.8	Apply lab safety rules as they relate to specific science *lab activities* (see Arkansas Lab Safety Guide).
4, 6	LS.4.2.2	Describe characteristics of various *habitats.*

1, 2, 4	PS.5.2.1	Classify objects based on two or more properties.

Arkansas Mathematics Standards: Grades 1 & 2		
Grade 1		
Lesson	**Standard**	**Descriptor**
2, 5	NO.1.1.3	Connect various physical models and representations to the quantities they represent using number names, numerals and number words to 20 with and without appropriate *technology.*
2	NO.2.1.3	Apply *number theory:* determine if a one-*digit* number is *odd* or *even,* use the terms sum and *difference* in appropriate context, and use conventional symbols (+, -, =) to represent the operations of addition and subtraction.
2, 5	NO.2.1.4	Use physical, *pictorial* and symbolic models to demonstrate various meanings of addition and subtraction.
2, 5	NO.2.1.5	Identify and use relationships between addition and subtraction to solve problems in *contextual situations* involving *whole numbers.*
2, 3, 5	NO.3.1.3	Solve problems by using a variety of methods and tools (e.g., objects, mental computations, paper and pencil and with and without appropriate *technology*).
1, 2, 3, 4	A.4.1.1	Sort and classify objects by one or two *attributes* in more than one way.
1, 2, 3	A.6.1.1	Explore the use of a chart or table to organize information and to understand relationships.
2, 3	A.7.1.1	Interpret *qualitative change.*
1, 2, 5	G.10.1.1	Extend the use of location words to include distance (near, far, close to) and direction (left and right).
3	M.12.1.7	Distinguish between hot and cold temperatures on a thermometer.
3	M.12.1.8	Recognize *attributes* of measurement (length, weight, *capacity* and *mass*) and identify appropriate tools used to measure each attribute.
3	M.13.1.1	Use a calendar to determine *elapsed time* involving a time period of one week.
1, 2, 3	DAP.14.1.1	Identify the purpose for data collection and collect, organize and display physical objects for describing the results.
1, 2, 3	DAP.15.1.1	Analyze and interpret concrete and *pictorial graphs* (i.e. *bar graphs*, *pictographs*, *Venn diagrams*, T-chart).
1, 2, 3	DAP.15.1.2	Make a true statement about the data displayed on a graph or chart (i.e. 5 people ride the bus).
Grade 2		
Lesson	**Standard**	**Descriptor**
2, 5	NO.2.2.6	Demonstrate various addition and subtraction relationships (property) to solve problems in *contextual situations* involving *whole numbers.*
2, 5	NO.3.2.4	Solve problems using a variety of methods and tools.(e.g., objects, mental computation, paper and pencil, and with and without appropriate *technology*).
1, 2, 3, 4	A.4.2.1	Sort, classify, and label objects by three or more *attributes* in more than one way.

1, 2, 3	A.6.2.1	Use a chart or table to organize information and to understand relationships.
2, 3	A.7.2.1	Interpret and compare *quantitative change.*
3	M.12.2.5	Compare temperatures using the Fahrenheit scale on a thermometer.
3	M.12.2.6	Make simple comparisons within units of like dimension (units of length, *mass*/weight and *capacity*).
3	M.13.2.1	Use a calendar to determine *elapsed time* involving a time period within a given month.
1, 2, 3	DAP.14.2.1	Identify the purpose for data collection and collect, organize, record and display the data using physical materials (*pictographs*, *Venn diagrams* and vertical and horizontal *bar graphs*).
1, 2, 3	DAP.15.2.1	Analyze and make predictions from data represented in charts and graphs.
1, 2, 3	DAP.15.2.2	Make true statements comparing data displayed on a graph or chart.
Arkansas English Language Arts Standards: Grades 1 & 2		
Grade 1		
Lesson	**Standard**	**Descriptor**
All lessons	**OV.1.1.1**	Use more descriptive and precise vocabulary to name and describe known items.
All lessons	**OV.1.1.6**	Make appropriate comments and suggestions and ask clarifying questions about the ideas and work of others.
All lessons	**OV.1.1.7**	Support spoken ideas and opinions with examples.
1, 2, 3, 4, 6	**OV.1.1.8**	Give simple two-step directions.
All lessons	**OV.1.1.9**	Participate in discussions about a variety of topics, including classroom events.
1, 6	**OV.1.1.10**	Tell and retell stories providing the characters, setting, problem, events, and resolution in logical order, with or without prompts.
All lessons	**OV.1.1.12**	Ask for clarification and explanation of words and ideas.
All lessons	**OV.2.1.1**	Demonstrate active listening behaviors (i.e., taking turns to speak).
All lessons	**OV.2.1.2**	Listen and identify topic.
All lessons	**OV.2.1.3**	Follow two-step oral directions.
1, 4, 6	**OV.2.1.4**	Listen to literature and respond appropriately, including predicting, connecting, questioning, and discussing the text.
All lessons	**OV.2.1.5**	Listen for specific information in order to respond with appropriate feedback.
All lessons	**W.4.1.2**	Focus on one topic.
All lessons	**W.4.1.3**	Apply strategies to move from oral language to written language (i.e., orally compose message and verbally rehearse, etc.).
All lessons	**W.4.1.4**	Develop one topic.
All lessons	**W.4.1.5**	Use a story frame or paragraph frame to organize writing.
All lessons	**W.4.1.6**	Participate in teacher led prewriting activities to promote organization of writing (i.e., story maps, webbing, and graphic

Lesson	Standard	Descriptor
		organizers).
All lessons	W.4.1.8	Elaborate to expand an idea.
All lessons	W.4.1.9	Include an introductory sentence and a sense of closure.
All lessons	W.4.1.10	Use a core of high frequency words fluently.
All lessons	W.4.1.17	Share writing with others.
All lessons	W.5.1.1	Write for peers
All lessons	W.5.1.5	Write brief *expository* descriptions of a real object, person, place, or event using some detail
All lessons	W.6.1.1	Use basic sentence structure for simple sentences.
All lessons	W.6.1.2	Vary sentence beginnings.
All lessons	W.6.1.4	Use phonetic strategies to spell unknown words (i.e., segmentation and analogies to known words).
All lessons	W.6.1.5	Spell basic high frequency words correctly.
All lessons	W.6.1.10	Print legibly by forming letters and leaving spaces between words and sentences
All lessons	W.7.1.6	Use newly learned words in writing.
4, 6	R.9.1.1	Access appropriate prior knowledge to enhance and monitor the understanding of the text.
1, 4, 6	R.9.1.5	Ask and answer questions before, during, and after the reading, including *who*, *what*, *when*, *where*, *why* and *how*.
1, 4, 6	R.9.1.9	Make and explain inferences from text, such as making predictions and drawing conclusions.
4	R.9.1.14	Create art work and appropriate written responses that show comprehension of a text.
1, 4, 6	R.10.1.3	Distinguish between fiction and nonfiction.
1, 4, 6	R.10.1.8	Respond to a wide variety of texts by contributing to a reading journal which demonstrates appropriate comprehension skills, including picture and written responses, reading log, and interest list.
1, 4, 6	R.11.1.8	Discuss the meaning of new words encountered in independent and assisted reading.
1, 2, 3	IR.12.1.4	Access information from simple charts, graphs, and calendars.
Grade 2		
Lesson	**Standard**	**Descriptor**
All lessons	OV.1.2.1	Use words that reflect a growing range of interests and knowledge.
All lessons	OV.1.2.6	Use oral language for different purposes (i.e., to inform, persuade, and entertain).
All lessons	OV.1.2.7	Support spoken ideas and opinions with examples and evidence.
All lessons	OV.1.2.8	Give three-step and four-step directions.
All lessons	OV.1.2.9	Participate in formal and informal discussions about a variety of topics including school events.
1, 4, 6	OV.1.2.10	Tell and retell stories incorporating the use of descriptive language and elements of a story.
All lessons	OV.1.2.12	Ask and answer questions.
All lessons	OV.2.2.1	Demonstrate active listening behaviors (i.e., asking relevant questions).

All lessons	OV.2.2.2	Listen and identify details that support the topic.
All lessons	OV.2.2.3	Follow oral directions with three or four steps.
All lessons	OV.2.2.4	Listen to literature and respond appropriately, including comparing/ contrasting and extending the text.
All lessons	OV.2.2.5	Listen for answers to specific questions and for specific purposes in response to nonfiction text.
All lessons	W.4.2.4	Organize writing appropriately (i.e., sequence, main idea and detail, cause and effect, etc.).
All lessons	W.4.2.5	Create well-developed paragraphs that include introduction, details, and conclusion.
All lessons	W.4.2.6	Include relevant information in writing.
All lessons	W.5.2.1	Write for other people (i.e., parents, relatives, friends, teachers, and authors).
All lessons	W.5.2.2	Match purpose for writing to the appropriate audience.
All lessons	W.5.2.4	Respond to open-ended questions.
All lessons	W.5.2.5	Write an informational paragraph, including a topic sentence, details, and conclusion.
All lessons	W.6.2.1	Use a variety of simple sentences.
All lessons	W.6.2.2	Vary *sentence patterns* and lengths.
All lessons	W.6.2.7	Use phonetic strategies and common visual patterns to spell unfamiliar words.
All lessons	W.6.2.8	Spell a growing number of high frequency words correctly.
All lessons	W.6.2.16	Write legibly in manuscript.
All lessons	W.7.2.5	Apply new vocabulary and concepts into writing.
4, 6	R.9.2.1	Activate prior knowledge by using features of text and/or knowledge of the author.
1, 4, 6	R.9.2.4	Discuss how, why, and what-if questions about texts.
1, 4, 6	R.9.2.8	Make and explain inferences from text, such as cause and effect relationships.
4	R.9.2.11	Present a logical interpretation of a book.
1, 4, 6	R.10.2.5	Respond to a wide variety of texts by contributing to a reading journal which demonstrates appropriate comprehension skills, including written responses, reading log interest list, and reading goals.
All lessons	R.10.2.17	Read functional and instructional messages in the classroom environment, including labels, announcements, instructions and invitations, to accomplish tasks.
All lessons	R.11.2.7	Learn new words from reading and discuss the meanings of words.
1, 2, 3, 4, 6	IR.12.2.4	Access information from such sources as charts, maps, graphs, and directions.
Arkansas Physical Education and Health Standards: Grades 1 & 2		
Grade 1		
Lesson	**Standard**	**Descriptor**
All lessons	PEL.4.1.3	Understand that sharing is an essential element for a productive climate in group settings.

1, 2, 5	**HW.5.1.1**	Understand that a system consists of body parts working together.
1, 2	**HW.5.1.3**	Describe the changes of the body that occur as a result of growth and development (e.g., height, loss of primary teeth).
All lessons	**HW.6.1.1**	Recognize the presence of germs and where they can be found.
1, 2, 4, 5	**HW.6.1.2**	Describe ways to prevent the spread of germs and illness: wash hands, cover sneeze/cough, and bathing.
3, 5, 6	**HW.8.1.1**	Understand consequences of choices.
3, 4, 5, 6	**HW.10.1.5**	Discuss the results of having healthy teeth: eating is easier, nicer smile, and talking is easier.
3, 4, 5, 6	**HW.10.1.6**	Recognize positive and negative oral health habits: positive (e.g., brushing teeth, flossing teeth, choosing healthy snacks) and negative (e.g., thumb sucking, nail biting).
1, 2	**HW.10.1.7**	Identify primary and permanent teeth
2	**HW.10.1.8**	Know the importance of dental checkups
5, 6	**HW.11.1.1**	Illustrate a healthy snack from each food group (e.g., role play, drawing, cut and paste)
Grade 2		
All lessons	**PEL.4.2.3**	Cooperate with others to complete an assigned task.
3, 4, 5	**HW.6.2.1**	Define disease.
All lessons	**HW.6.2.3**	List ways to prevent the spread of diseases: wash hands, immunization, and not sharing items.
3, 4, 5, 6	**HW.10.2.5**	Examine evidence of things that keep teeth from being healthy: *plaque,* bacteria, and sugary foods.
2, 3, 4, 5, 6	**HW.10.2.6**	Explain positive oral health habits: brushing with proper tooth brush, flossing, using fluoride toothpaste, having regular dental checkups, and using dental sealant.